

# PRINTER RUSH

(PTO ASSISTANCE)

IFW

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<input type="checkbox"/> DRW		
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<input type="checkbox"/> 312		
<input checked="" type="checkbox"/> SPEC	<u>12-31-03</u>	

## [RUSH] MESSAGE:

There are color drawings in the file but the required fee paragraph is not printed on page 9 of the 12-31-03 specification. This paragraph is required for printing purposes per 37CFR 1.84 (a)(2)(iv).

Please correct

Thank You

Tw

## [XRUSH] RESPONSE:

ATTACHED IS THE PARAGRAPH FOR COLOR PHOTO'S IN WHICH IS TO BE INSERTED INTO THE SPECIFICATION UNDER THE BRIEF DESCRIPTION.

THANKS

INITIALS: JDC

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

1 degradation caused by a microscopic system.

2 Another objective of the present invention is to provide a method of Raman  
3 image restoration.

4 It is yet another objective of the present invention to provide a method of  
5 using ratio Raman imaging to indicate the drug action in a cell.

6 Still another objective of the present invention is to provide a method of using  
7 ratio Raman imaging to quantify local drug concentration.

8 Another objective of the present invention is to provide a convenient and cost  
9 effective method to evaluate the efficacy of drugs at the cellular level.

10 SEE  
ATTACH. >

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

11 Figure 1 is a Raman spectrum of the anti-cancer drug taxol.

12 Figure 2 is a Raman spectrum of cytoplasm in a MDA435 breast tumor cell.

13 Figure 3 is a Raman spectrum of the nucleus in a MDA435 breast tumor cell.

14 Figure 4 is a drug delivery system for Raman imaging.

15 Figure 5 is a Ratio Raman image (b) that illustrates the drug distribution  
16 (bright areas) within a breast tumor cell after treatment with 0.3 mg/ml taxol.

17 Figure 6 is a Ratio Raman image (b) that illustrates there is no drug  
18 distribution within a breast tumor cell after treatment with 0.3 mg/ml diluent-only  
19 solution.

20 Figure 7 illustrates Ratio Raman images (b-g) that show drug distribution at  
21 different depths of a breast tumor cell after treatment with 0.3 mg/ml taxol.

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.